

SINGLE PUFF, SIMPLE WINDS

Weather Conditions:

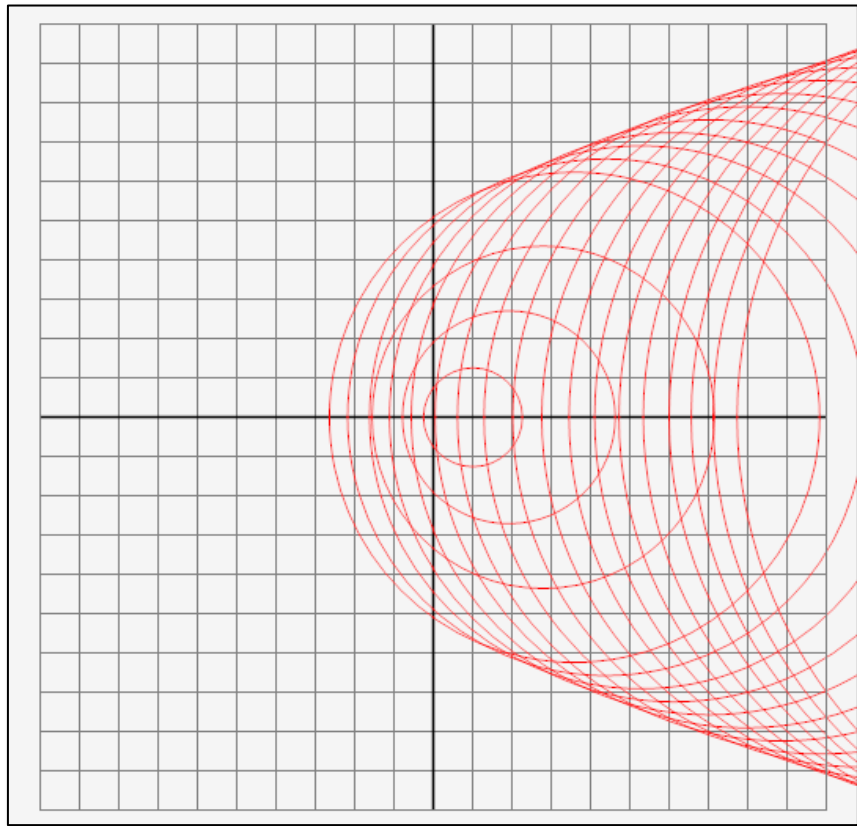
- **Winds 4 mph from 270 with A stability**

Comments:

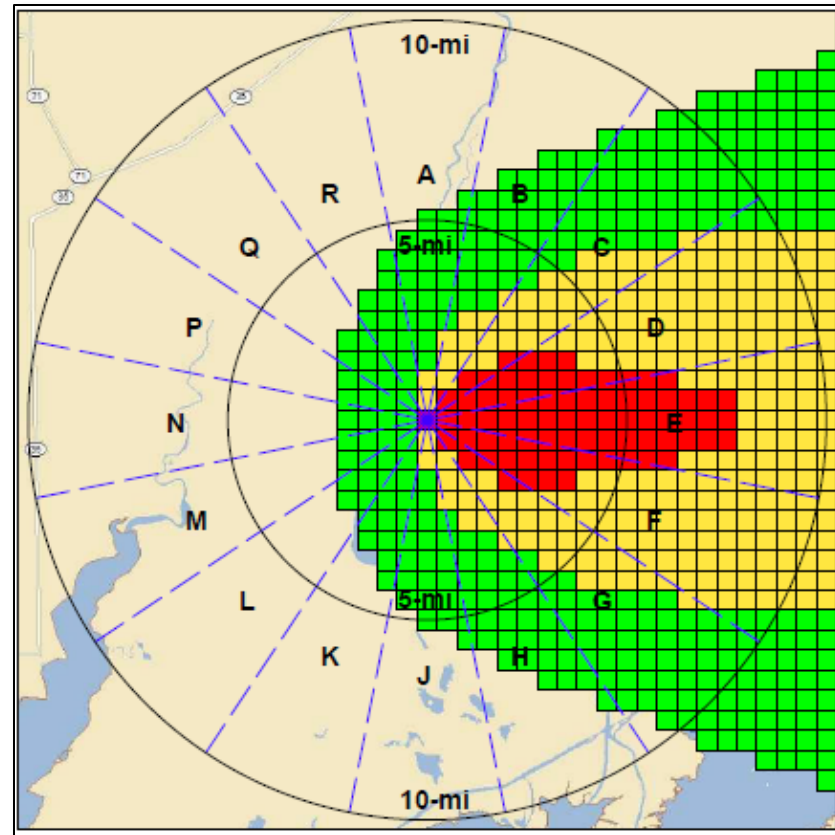
- **Puffs are tracked off the model grid (might come back if winds change)**
- **Unstable conditions result in large horizontal growth of puffs; large area impacted**

SINGLE PUFF, SIMPLE WINDS - COMPARISON

Animated Puffs



Resulting Footprint



MULTIPLE PUFFS, VARYING WINDS

Weather Conditions:

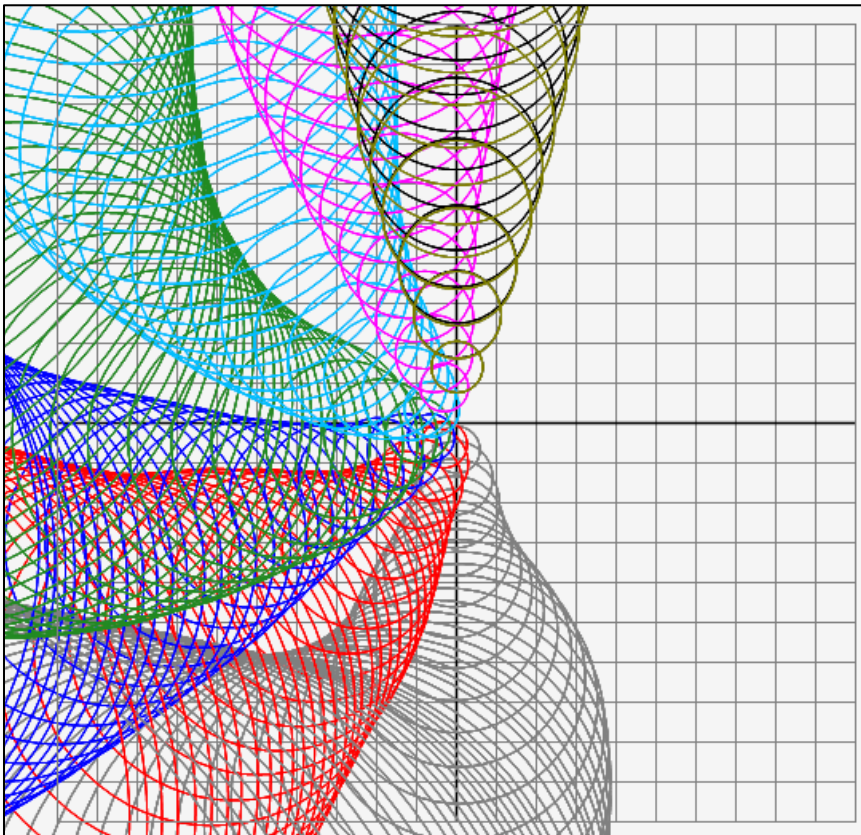
Time	Direction	Speed	Stability
00:00	0	3	E
12:00	80	4	C
00:00	180	6	D

Comments:

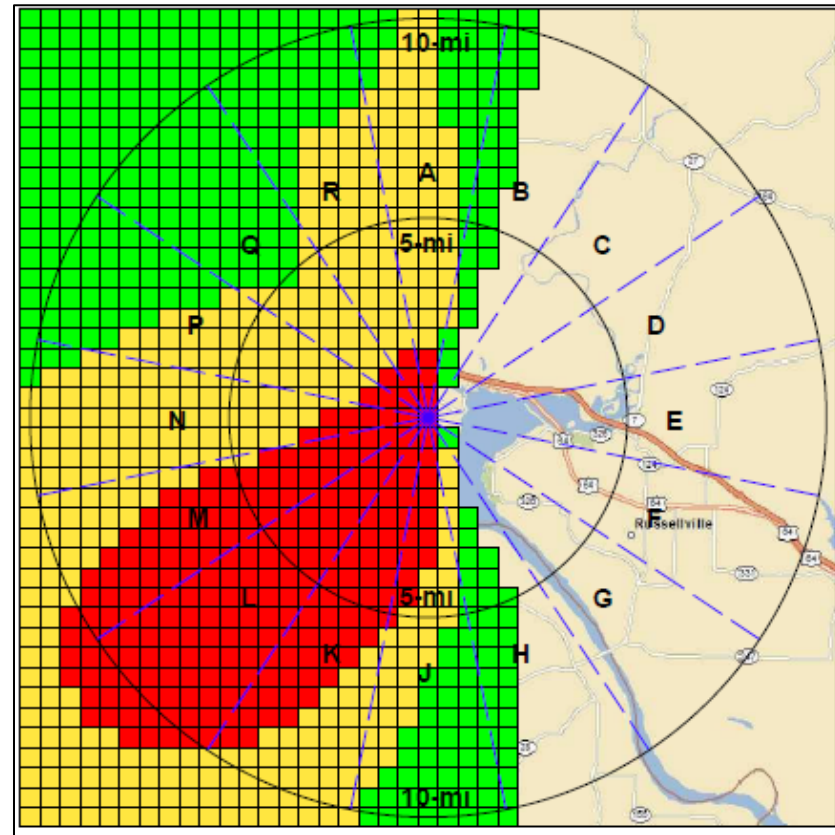
- Winds interpolate between the entered times

MULTIPLE PUFFS, VARYING WINDS – COMPARISON

Animated Puffs



Resulting Footprint



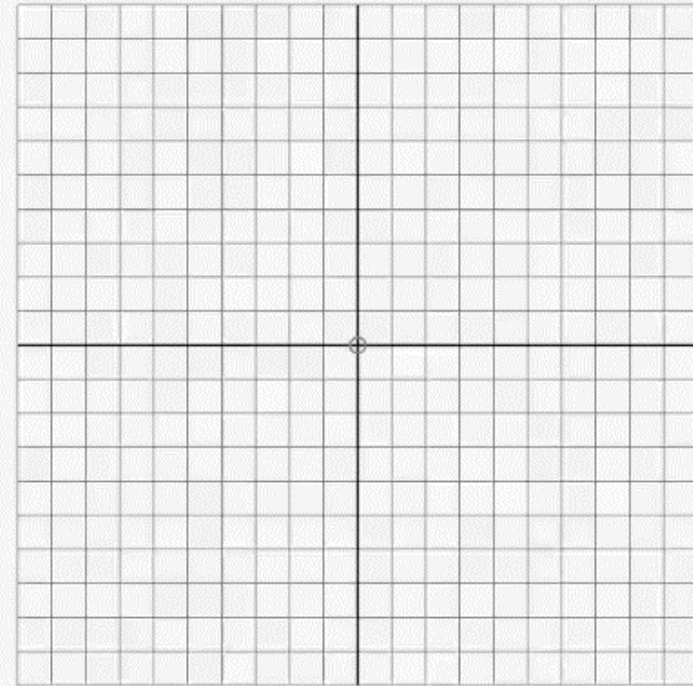
MULTIPLE PUFFS, CALM WINDS

Weather Conditions:

Time	Direction	Speed	Stability
00:00	270	0	F
08:00	240	0	B
16:00	200	2	F
04:00	180	2	B

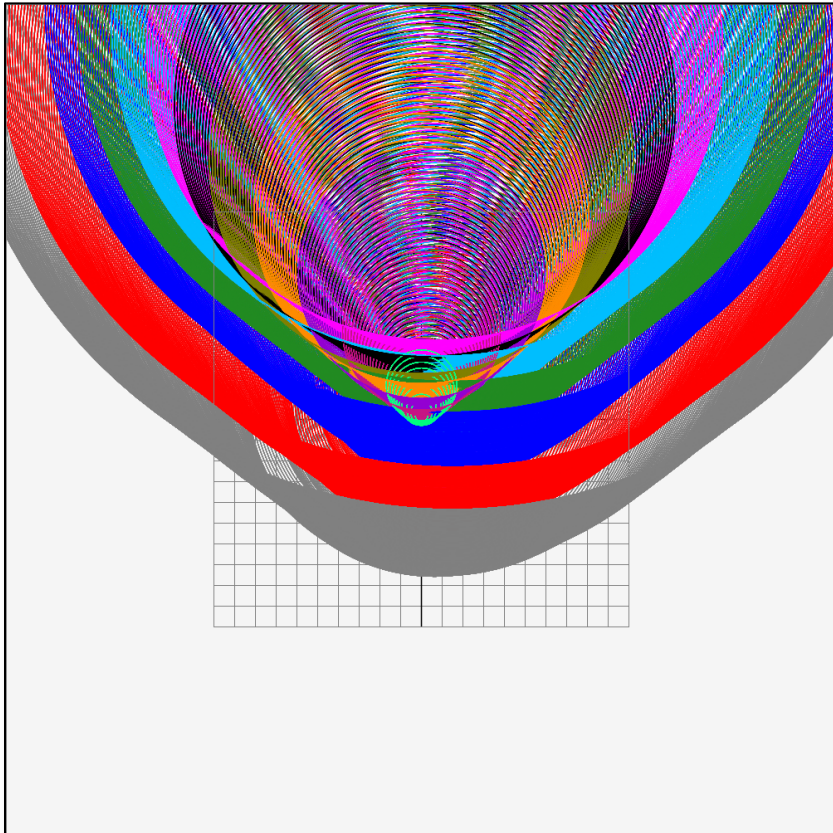
Comments:

- Growth in all directions
- Results may take longer to calculate

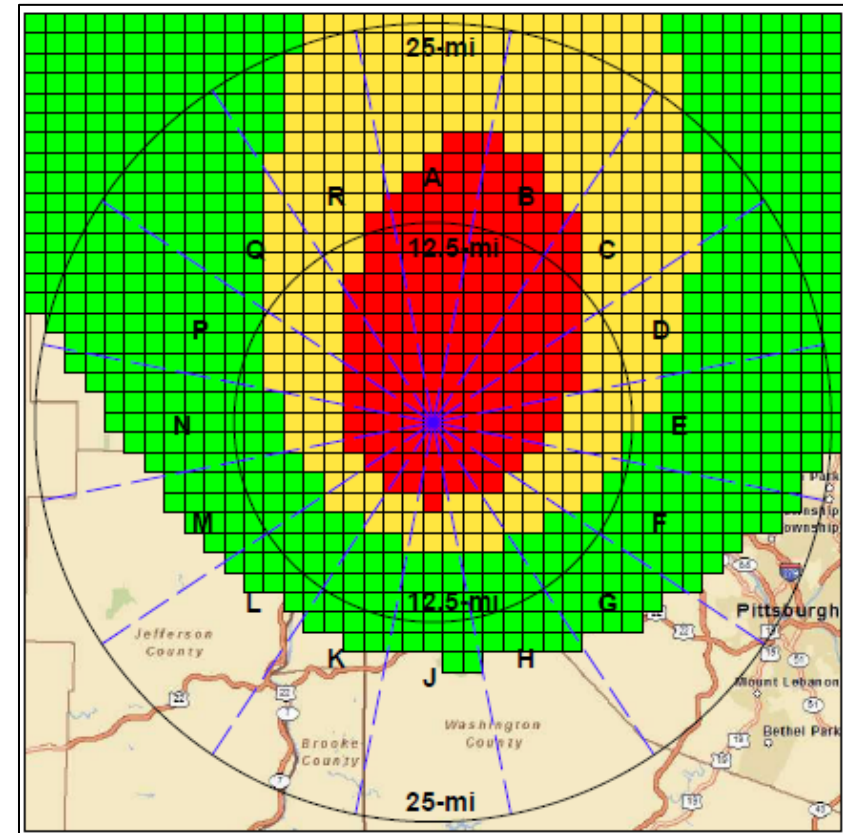


MULTIPLE PUFFS, CALM WINDS – COMPARISON

Animated Puffs



Resulting Footprint



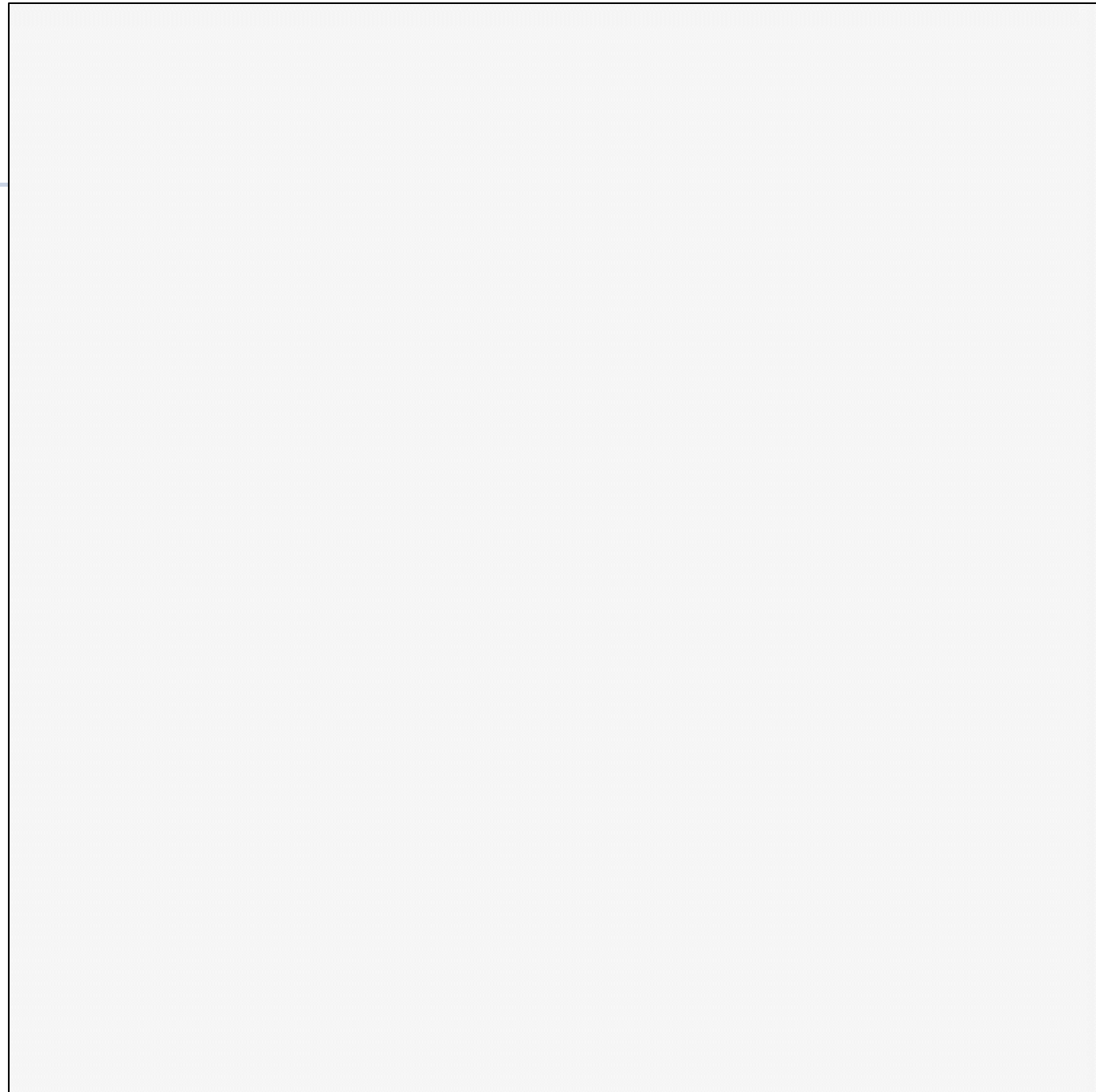
MULTIPLE PUFFS, ACTUAL WEATHER

Weather Conditions:

- **Downloaded using MetFetch**
- **Obs and Forecasts for the entire model duration**

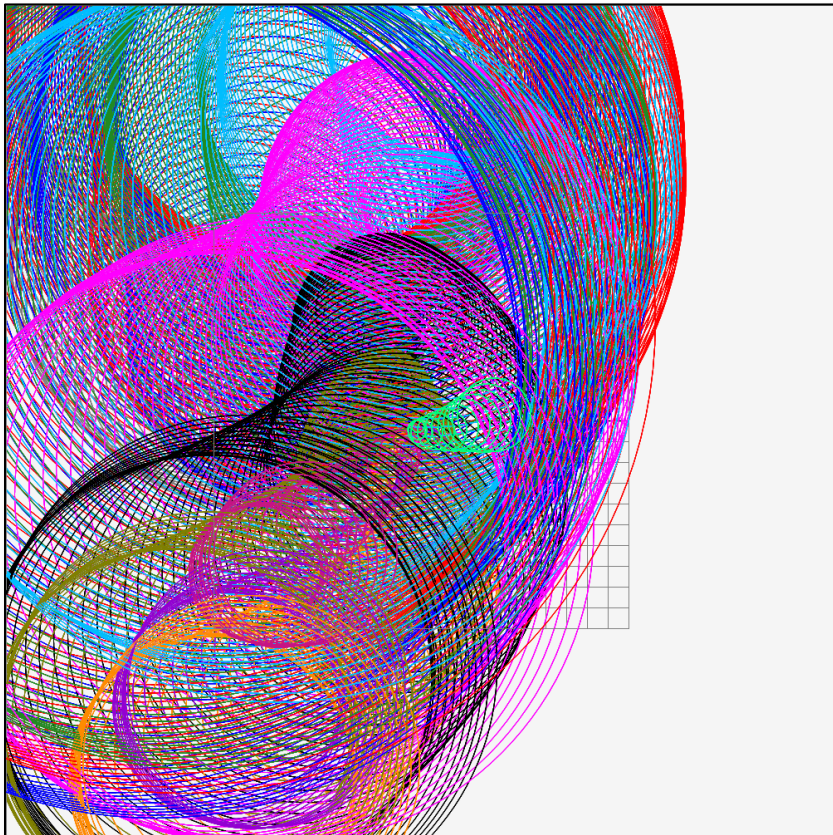
Comments:

- **Video shows puff centers first, then puff circles**
- **Some puffs move off the grid and then back on**
- **Unlike exercise weather, real conditions may be complicated in space and time.**



MULTIPLE PUFFS, ACTUAL WEATHER – COMPARISON

Animated Puffs



Resulting Footprint

